

This application uses numeracy skills from the following skills units:

- **Problem Solving A**
- **Measurement A**
- **Calculation**
- **Diagrams and Tables A**

You package 4 parcels of promotion materials - brochures, price lists, order forms - to send to four overseas customers by air freight.

Two parcels, one to France and the other to England (Zone 5), have a mass of 380 g each. The other two parcels, each weighing 240 g, are addressed to places in Korea and Japan (Zone 3).

The rates for overseas parcels are:

· Zone 1,2 and 3	Air	Economy	Sea
Up to 250g	\$ 4.75	\$ 4.00	\$ 3.50
Over 250g up to 500g	\$ 5.50	\$ 7.00	\$ 6.00
Over 500g up to 750g	\$12.25	\$10.00	\$8.50
Over 750g up to 1kg	\$16.00	\$13.00	\$11.00
Over 1kg up to 1.25kg	\$19.75	\$16.00	\$13.50
· Zone 4			
Up to 250g	\$ 5.75	\$ 4.50	\$ 4.00
Over 250g up to 500g	\$10.50	\$ 8.00	\$ 7.00
Over 500g up to 750g	\$15.25	\$11.50	\$10.00
Over 750g up to 1kg	\$20.00	\$15.00	\$13.00
Over 1kg up to 1.25kg	\$24.75	\$18.50	\$16.00
· Zone 5			
Up to 250g	\$ 6.50	\$ 5.00	\$ 4.00
Over 250g up to 500g	\$12.00	\$ 9.00	\$ 7.00
Over 500g up to 750g	\$17.50	\$13.00	\$10.00
Over 750g up to 1kg	\$23.00	\$17.00	\$13.00
Over 1kg up to 1.25kg	\$28.50	\$21.00	\$16.00

- a) *Could the two parcels to Europe be paid for as one parcel? Why?*
- b) *Could the two parcels for Asia be paid for as one parcel?*
- c) *Calculate the cost of sending each of the parcels.*
- d) *What is the total cost for sending all of the parcels?*
- e) *What is the combined mass of the parcels?*

Application Answers

- a) No, they go to different places
- b) as for a)
- c) France & England: each parcel costs \$12
Korea & Japan: each parcel costs \$4.75
- d) \$33.50
- e) 1240 g or 1.240 kg